

## **Slide 1 – IBM Videos**

- mention Andy Stanford-Clark – his house experiment on twitter (tracked arrivals departures, daily energy usage, phone calls, water use, etc.)
- home automation is a really strong point of entry into discussions about open or big data as within limited complexity of a small environment is easier to potential applications/benefits of information management

Interview with Andy:

*“Our standby power was really high because I had a load of geeky home automation stuff running, and my first-generation, homebrew, energy monitoring solution (how ironic!)... which included 3 laptops doing various things (monitoring data and displaying information round the house). I just didn't think about the cost.*

*So one weekend we went round the house making an inventory in each room of things that were on (the children were keen to help!). That enabled me to pretty much track down the whole 500 W... there were a few things that took some sleuthing, like the alarm system and the central heating controller. We used a plug-in meter to see what individual appliances were using.. a really useful diagnostic aid. It's worth having a look at AutomatedHome's review of these energy monitoring products, by the way.*

*So I turned off a load of things that were sitting there on standby.. things like stereo, microwave, scanner, Wii, power bricks... each taking 4-6 Watts just doing nothing – each one small, but it all adds up. The big hitters were the PCs... turned off 3 of those, and consolidated onto a low power (10W) Linux server (Viglen MPC-L)...so that got our standby power down to 180 watts. And that, combined with being proactive about turning off lights, reduced our power usage from 900 KWH a month to 600... i.e. 30% and it has been at that for 4 months now.”*

## **Slide 2 – Nest**

- recent offering in home energy management
- Nest was offered because:

- Thermostats control 50% of energy bill / 10% of American energy (1.7 billion barrels of oil per year)
- Thermostat is generally a dumb, unresponsive object
- Correctly programming a thermostat can save 20% of heating/cooling bill
- 90% of thermostats are rarely/never programmed

- elegance + visibility + user experience

## **Slide 3 – Pachube**

“connects people to devices, applications and the Internet of Things... a web-based service built to manage the world’s real-time data. Pachube gives people the power to share, collaborate, and make use of information generated from the world around them.”

-show <http://community.pachube.com/hardware>

-show <http://apps.pachube.com>

-show [https://pachube.com/feeds?order=retrieved\\_at&per\\_page=10](https://pachube.com/feeds?order=retrieved_at&per_page=10)

#### **Slide 4 – Geiger Counter**

-crowdsourced data collectors across Japan, put together realtime radiation informatics

-provided counterpoint to the narrative of TEPCO (private firm that managed the plant) that managed the Fukushima plant

-we’ve seen this narrative before with BP/Deepwater Horizon and the balloon mapping used to track the extants and character of the oil spill

#### **Slide 5 – OPEN**

-Let’s talk vocab... how would we define ‘open’ in relation to public information/data.

-what is at stake – **what are some related cultural shifts?**

-if we are talking about the governance what might be at stake? (campaign financing, lobbying, voting records, attendance, connectivity, geographic voting havits/political leanings, legislation visibility, bill construction, private sector relationships, ‘consistency’ metrics, etc.)

#### **Slide 6 – Fabien Girardin**

-Would like to turn to Girardin’s text “Data City: A Text for Visual Complexity, the Book”

-Fabien’s research interests – public data, social media and urban representation

#### **Slide 7 – Quotes**

-rehash key quotes – this is kind of an overview

-points to ascent of new platforms (OpenStreeMaps, KML, Geocoding, viz platforms like Goecommons)

-“traditional cartography with line drawing/static images now coexists with flexible solution with interactivity and reactive environments”

-mashups as precursor to larger initiatives (open data/linked data)

-Geocommons & Many Eyes

-need to be able to draw connections in order to develop solutions

-“modern city not built just upon physical insfrastructure, but flows of information”

#### **Slide 8 – HousingMaps**

#### **Slide 9 – Rocket Radar**

### **Slide 10 – Questions**

-What is applicability here?

-mention Dan Hill's post – read introduction

### **Slide 11 – BIG**

-What about Big?

-essentially William Turkel's talk: His analogy about the 'corpus' of Roosevelt scholarship vs. Clinton Emails

-Dealing with volume and probably requiring computation in order to do so

### **Slide 12 – Cultural Analytics**

-Brief aside – tonight's case study was going to be the Software Studies Initiative's 'Cultural Analytics project – this is basically crystalized through ImagePlot – which Synthia & Magdalena presented

- "I think visualization in the Information Age is what photography was to the Industrial Age... it's a kind of 'photography of data.' Changing parameters with your virtual camera allows you to reveal different patterns (for) better or worse." – Lev Manovich